

HERE and THERE (CONTINUED)

A Phosphor-Bronze Amalgamation

FOLLOWING the acquisition of the Phosphor Bronze Co. by Hardy Spicer and Co., Ltd., Mr. E. J. Hardy (who is now chairman) and two directors of Hardy Spicer have joined the board of the Phosphor Bronze Co. They are Mr. J. L. Hardy—as managing director—and Mr. W. E. Sparrow.

Blenheim Production

TO the list of suppliers of works equipment given in connection with our recent article on the production of the Bristol Blenheim should be added the name of Desoutter Bros., Ltd., whose pneumatic and electric portable tools are playing an important part in the manufacture of that notable machine.

"Fireproofing" Steel

A MOST convincing comparative test of the fire-resisting properties of (a) ordinary steel girders and (b) girders protected by a special process utilising moulded asbestos was given recently at Barking Power Station before an audience of experts. The process has been developed by Newalls Insulation Co., Washington Station, Co. Durham.

Half-sections of moulded asbestos 3ft. long are built round the girders or joists, cemented with a special heat-resisting cement and further secured by nickel-chromium binding wires sunk into grooves in the outer surface of the mouldings, the grooves being filled in by a refractory cement, which is used as a coating for the whole outer surface.

The test showed how girders thus protected can withstand the heat of a fierce fire, and continue to carry a heavy load, whereas unprotected steelwork will wilt and collapse in a few minutes.

It was also demonstrated that the process applied in an appropriate manner is equally useful for the protection of electric cables. Newalls have had extensive experience in the application of both steel and cable protection in power houses, where serious oil fires in transformers are an ever-present risk that has to be guarded against.

The process has obvious value in the construction of aircraft hangars and factories, and the Newall engineers can provide any advice and data required.

NEW COMPANIES

In the notes below, for reasons of space, the "objects" of new companies are usually somewhat abbreviated.

ALTREE AIRCRAFT COMPANY, LTD.—Private company, registered June 2. Capital, £3,000 in 20,000 ordinary shares of 1s. each and 2,000 6 per cent. non-cumulative preference shares of £1 each. Objects: To carry on the business of aeroplane and mechanical engineers, tool-makers, etc. The subscribers are: Jas. P. Altree, 111, Deckerage Lane, New Malden, Surrey, engineer. Arthur S. Prall, 161, Malden Road, New Malden, Surrey, solicitor. The first directors are not named.

CAMBRIDGESHIRE FLYING SERVICES, LTD.—Private company, registered May 20. Capital, £100 in 100 shares of £1 each. Objects: To carry on business as aeronautical experts and consultants, manufacturers of and dealers in aeroplanes, etc. The directors are: Humphry R. Dimock (permanent managing director), and Mrs. Molly Dimock, both of 42, Cambridge Road, Ely.

AERO TURBINES, LTD.—Private company, registered June 2. Capital, £30,000 in 30,000 ordinary shares of £1 each. Objects: To carry on the business of manufacturers of and dealers in aero engines, aircraft of all kinds, etc. The permanent directors are: Jas. M. King and Geo. W. Hubbard. Registered office: 61, Crutched Friars, London, E.C.3.

AIRCRAFT PRECISION, LTD.—Private company, registered May 30. Capital, £1,000 in 1,000 shares of £1 each. Objects: To carry on the business of engineers, manufacturers of and dealers in aeroplanes, etc. The directors are: Henry D. Simpson, Henry Ross-Dreher, Ralph H. L. Watson, M.P.S., and Daisy MacLennan. Registered office: 284, Western Road, Merton, London, S.W.19.

THE BRITISH POWER BOAT COMPANY, LTD., was registered as a private company on June 8, with a nominal capital of £750,000 in 500,000 5 per cent. preference and 200,000 ordinary shares of £1 each and 200,000 deferred shares of 5s. each. The objects are to adopt an agreement with Hubert Scott-Paine, and to carry on the business of builders, designers and repairers of and dealers in speed, power and motor boats, and craft of every description, marine aircraft, aeroplanes, etc. The first directors are Hubert Scott-Paine (permanent director and chairman) and others to be appointed by the subscribers. Solicitors: Simmons and Simmons, 1, Threadneedle Street, London, E.C.

AERONAUTICAL PATENT SPECIFICATIONS

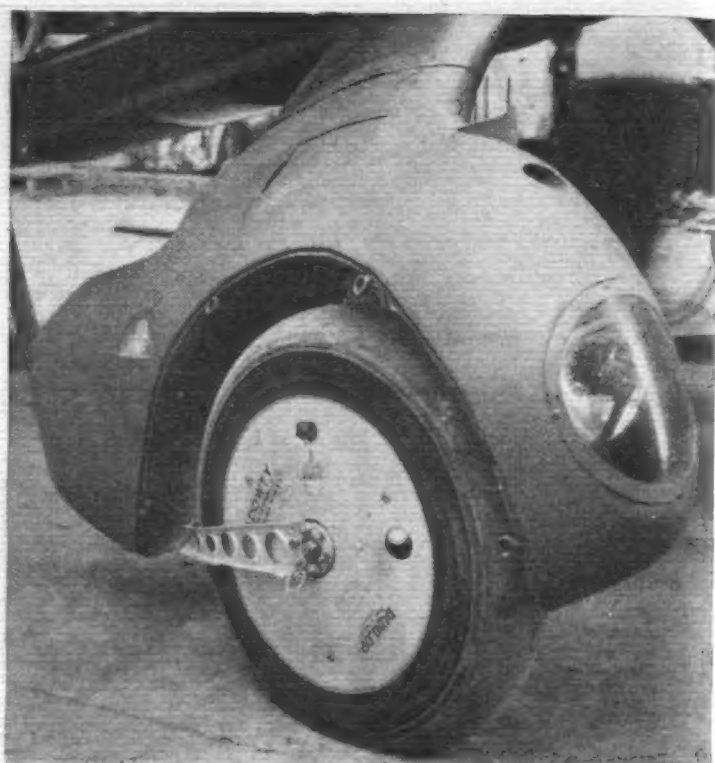
(The numbers in brackets are those under which the Specifications will be printed and abridged, etc.)

(Published May 12, 1938.)

- 27603. POOL, J. H.: Parachutes (483,083).
- 27626. BLACKBURN AIRCRAFT, LTD., and PETTY, G. E.: Construction of wings, surfaces and fuselages of aircraft (483,085).
- 27788. VEREINIGTE DEUTSCHE METALLWERKE AG-GE: Arrangement for automatically regulating the pitch of variable-pitch propellers (483,285).
- 24371. AEROPLANE CAPRONI SOC. ANON., and FUSCALDO, O.: Liquid-fuel injection systems for internal-combustion engines (483,127).
- 5724. BENDIX AVIATION CORPORATION: Brakes (483,145).

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- 17232. HULL, H. L., SPERRY GYROSCOPE CO., LTD., and SPERRY GYROSCOPE CO., INC.: Electric systems for controlling the position of a controlled object (483,635).
- 22449. MORSE, R. O.: Panel-securing means in or for aeroplanes and vehicles with sunshine roofs or the like (483,302).
- 25072. HILLIER, A.: (Sperry Gyroscope Co., Inc.): Gyroscopic instruments (483,370).



"Flight" photograph.

ALL IS NOT WHEEL . . . A close-up, with part of the fairing removed, of the Westland Lysander's undercarriage. Revealed is the Dunlop-tired Dowty internally sprung wheel; concealed is the machine gun, though its port can be seen, as can the Harley landing light. The story is repeated on the other side of this remarkable army-co-operation machine, which was described in detail in *Flight* last week.

- 25322. BENDIX AVIATION CORPORATION: Brake-control mechanism for aircraft (483,467).
- 28751. FAIRLEY AVIATION CO., LTD., LOBELLE, M. J. O., HOOVER, M. S., and MORREY, P.: Control of drag on the surfaces of bodies moving in fluids (483,497).
- 28930. AIRFIELD (1934) LTD., and NORWAY, N. S.: Indicating or recording instruments for use on aircraft (483,583).
- 29101. ELLOR, J. E.: Fuel tanks for aircraft (483,676).
- 29401. PATTERSON, T. W.: Variable-thrust screw propeller blades (483,681).
- 4110. BENDIX AVIATION CORPORATION: Brakes (483,408).
- 7303. STONE, M. J.: Screw-propeller construction (483,411).
- 11421. ALLEN, A. W.: Airships (483,606).
- 11644. SHORT BROS. (ROCHESTER & BEDFORD) LTD., and GOUGE, A.: Flying boats (483,423).
- 12045. FAIRLEY AVIATION CO., LTD., and LOBELLE, M. J. O.: Seaplane undercarriages (483,424).
- 13410. NAAMLOOZE VENNOOTSCHAP PHILIPS' GLOEILAMPENFABRIEKEN: Course-indicating radio receivers for aircraft and the like (483,427).
- 18664. BRITISH THOMSON HOUSTON CO., LTD.: Aircraft-landing equipment (483,437).
- 22905. TELEFUNKEN GES FÜR DRAHTLOSE TELEGRAPHIE: Navigation aiding radio transmitting installations (483,449).
- 24361. AEROPLANE CAPRONI SOC. ANON and FUSCALDO, O.: Liquid-fuel injection systems for internal combustion engines (483,454).
- 24372. SIEMENS APPARATE UND MASCHINEN GES: Arrangements for supporting telephones in aviators' caps or the like (483,630).
- 20500. HEINE, H. (Trading as HEINE MODELFABRIK PROPELLERWERK, H.): Wooden airscrews (483,634).

(Published May 26, 1938.)

- 20023. RUBBRA, A. A.: Variable-pitch airscrews (483,824).
- 29084. MARCHAND, G. F. X.: Underground shelters for aeroplanes (483,915).
- 34504. FAIRLEY AVIATION CO., LTD., FORSYTH, A. G., and PERT, G. J. SMITH: Variable pitch propellers, especially for aircraft (483,760).
- 2383. ALKAN, R.: Sighting-correction apparatus for guns mounted on aircraft (483,767).
- 4137. RADIO TRANSMISSION EQUIPMENT, LTD., and BAILEY, C. E. G.: Radio receivers for direction-finding or course indicating systems (483,768).
- 10159. LORENZ AKT.-GES., C.: Radio transmitting systems (483,883).
- 20173. BIKES, E.: Pneumatic wheel and tyre for vehicles, including aircraft (483,900).
- 23861. BERLINER, H. A.: Variable-pitch propellers (483,961).
- 34586. SOC. D'INVENTIONS AERONAUTIQUES ET MECANIQUES S.I.A.M.: Roller bearings for variable-pitch propellers and a method of manufacturing same (483,980).
- 15047. FAIRLEY AVIATION CO., LTD., LOBELLE, M. J. O., and VOSS, E.: Mounting of guns on aircraft, land and marine vehicles and submarines (483,847).

(Published June 2, 1938.)

- 26567. ELLOR, J. E., and PARAVICINI, T. P. DE: Control of cooling airstreams of aircraft engines (484,300).
- 29804. BRISTOL AEROPLANE CO., LTD., FEDDEN, A. H. R., and OWNER, F. M.: Aircraft (484,405).
- 29834. GOLDSCHMIDT, M.: Elastic suspension arrangements, more particularly the suspension of aeroplane engines (484,481).
- 29909. DEKAY AIRCRAFT CORPORATION, LTD., and STILL, S. C., HART: Aircraft wing construction (484,305).
- 30330. STANDARD TELEPHONES AND CABLES, LTD., and EARP, C. W.: Radio direction finders and course-indicating devices (484,599).
- 2512. DOREY, R. N., and BELLAMY, R. A.: Lifting tackle for airscrews (484,338).
- 5229. LINK, JUN., E. A.: Apparatus for training aviators (484,243).
- 6210. FAIRLEY AVIATION CO., LTD., LOBELLE, M. J. O., and TROTTER, J. C.: Folding wing aircraft (484,622).
- 20227. CIERVA AUTOGIRO CO., LTD.: Rotating wing aircraft (484,376).
- 3045. PLESMAN, A.: Means for coupling or uncoupling aircraft during flight for landing and launching (484,657).